

FIG. 1

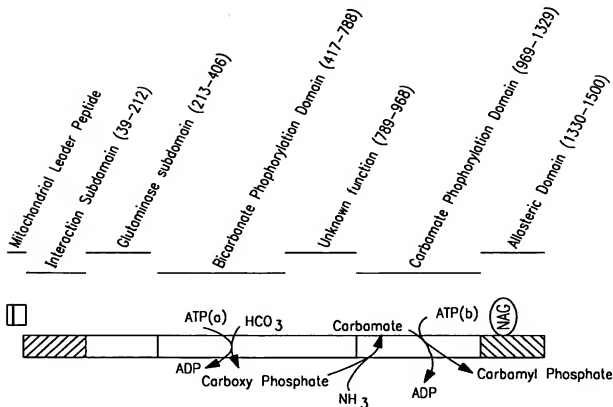


FIG. 2

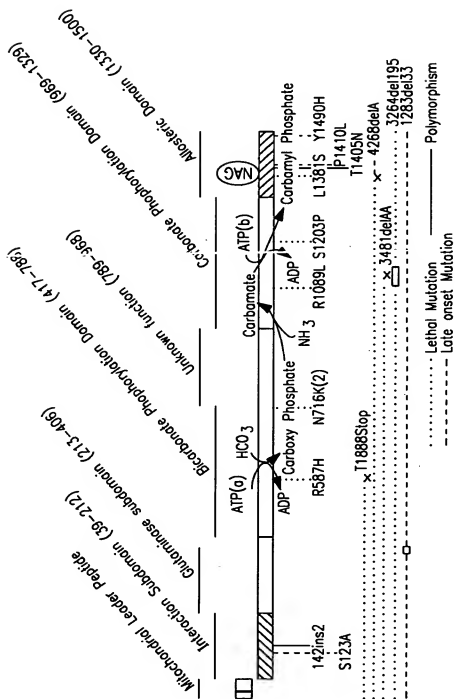


FIG. 3

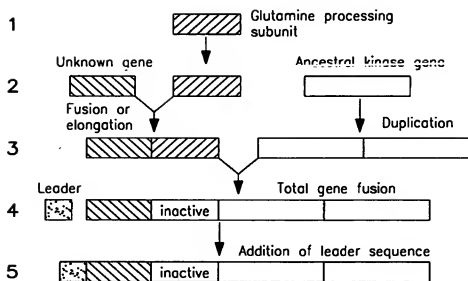


FIG. 4

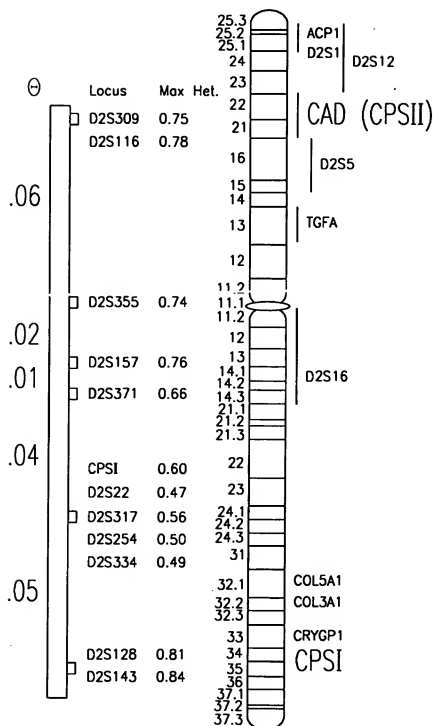


FIG. 5

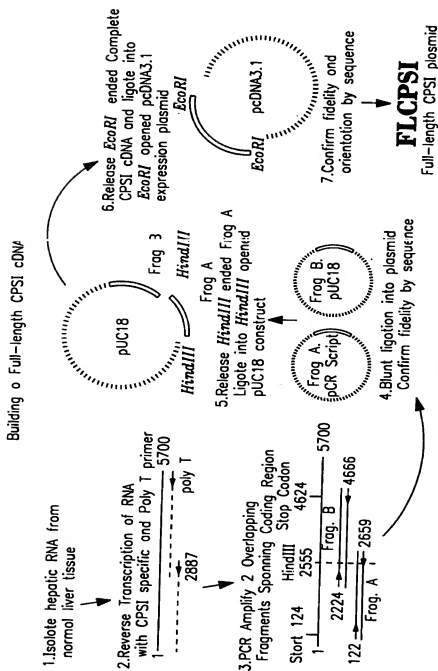


FIG. 7

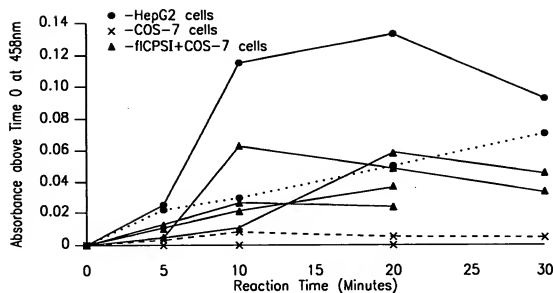


FIG. 8

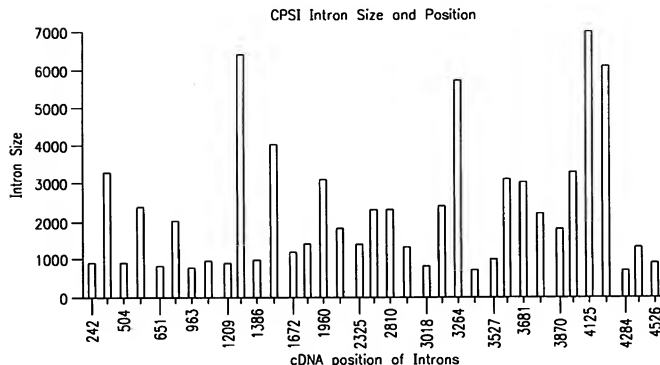


FIG. 9

1 ctactctcca tggttcagcaa ttctctcttc ttatgtgttt aaattacatg ttccataaaa ataagaat
71 cactgtgata cggtaattga ttttttcatt ttaaatgcag/(intron exon boundary)
111 (U4295)
111 CTGTTTGCCA CGGAAGCCAC ATCAGACTGG CTCACGGCCA ACAATCTCCC TGCACCCCA GTGGCATGGC
181
CGTCTCAAGA AGGACAGAAT CCCAGCCTCT CTTCATCAG AAA/ (intron exon boundary)
224 GTCGGAGA GAAGGTAGTC TT L(135a)
gtaagaacta ggcatactgt ttctgaaat aatttagagg attaa:tttg agaaccagta tatgaatatt
294
364 caccitgctt gattgcaagt cttttaaac aaatttaaaa atgaa:acat tigtgtagta tigtcaagtt
(L135b)
434 tcactctcca tcactatgga atacataacg tcatgtgtac atgggtgatat gaacagtggt tcaaaataact
tcttagtaag gatactttcc ttgacggaaa caagtggag tatgaagaat gtaatgcagc ac

Primer	Begins	Size	Seq ID NO:
U4295	119	20	8

L135a	220	21	9
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L135b	370	24	10
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Spanner 1	agctgtttgccacggaagcc	6
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Spanner 2	cccagctctcttccatcagaagaagtaag	7
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Pairs

U4295 - L135a 101 base fragment

U4295 - L135b 251 base fragment

Spanner1 - Spanner2 119 base fragment

FIG. 10

CPSI T1405 SEQUENCE (SEQ ID NO:4)

MTRILTAFKV VRTLKTGFGF TNVTAHQKWK FSRPGIRLLS VKAQTAHIVL EDGTMKMGYS
FGHPSSVAGE VVFNTGLGGY PEAITDPAYK GQILTMANPI IGNGGAPDTT ALDELGLSKY
LESNGIKVSG LLVLDYSKDY NHWLATKSLG QWLQEEKVPA IYGVDRMLT KIIRDKGTM
GKIEFEGQPV DFVDPNKQL IAEVSTKDVK VYKGNP TKV VAVDCGIKNN VIRLLVKRGA
EVHLVPWNHD FTKMEYDGL IAGGPGNPAL AEPLIQNVK ILES DRKEPL FGISTGNLIT
GLAAGAKTYK MSMANRGQNQ PVLNITNKQA FITAQNHGYA LDNTLPAGWK PLFVNVNDQT
NEGIMHESKP FFAVQFHPCV TPGPIDTEYL FDSFFSLIKK GKATTITSVL PKPALVASRV
EVSKVLILGS GGLSIGQAGE FDYSGSQAVK AMKEENVKTV LMNPNIASVQ TNEVGLKQAD
TVYFLPITPQ FVTEVIKAEQ PDGLILGMGG QTALNCGVEL FKRGVLKEYG VKVLGTSVES
IMATEDRQLF SDKLNEINEK IAPSFIVESI EDALKAADTI GYPVMIRSAY ALGGLGSGIC
PNRETLMDLS TKAFAMTNQI LVEKSVTGWK EIEYEVVRDA DDNCVTVCNM ENVDAMGVHT
GDSVVVAPAQ TLSNAEFQML RRTSINVVRH LGIVGECNIQ FALHPTSM EY CIIENVARLS
RSSALASKAT GYPLAFIAAK IALGIPLPEI KNNVSGKTS ACFEPSLDYMV TKIPRWDLDR
FHGTSSRIGS SMKSVGEVMA IGRTFEESFQ KALRMCHPSI EGFTPRLP MN KEWPSNLDLR
KELSEPSSTR IYAIKAIDD NMSLDEIEKL TYIDKWFLYK MRDILNMEKT LKGLNSESM T
EETLKRAKEI GFSDKQISK LGLTEAQTRE LRLKKNIHPW VKQIDTLAAE YPSVTNYLYV
TYNGQEHDVN FDDHGMMLV LG CGPYHIGSSV EFDWCAVSSI RTLRLQLGKKT VVNCNPETV
STD FDECDKL YFEELSLER ILDIYHQEACG GCII SVGGQI PNNLAVPLYK NGVKIMGTSP
LQIDRAEDRS IFSAVLDELK VAQAPWKAVN TLNEALEFAK SVDYPCLLRP SYVLSGSAMN
VVFSEDEM KK FLEEATRV SQ EHPVVLTKFV EGAREVEMDA VGKDGRVISH AISEHVEDAG
VHSGDATLML PTQTISQGA I EKVKDATR KI AKAF AISGPF NVQFLVKGND VLVIECNLRA
SRSPFPVSKT LGVDFIDVAT KVMIGENVDE KHLPTLDHPI IPADYVAIKA PMFSWPRLRD
ADPILRCEMA STGEVACFGE GIHTAFLKAM LSTGFKIPQK GILIGIQQS F RPRFLGVAEQ
LHNEGFKLFA TEATSDWLNA NNVPATPVAV PSQEGQNPSL SSIRKLIRDG SIDLVINLPN
NNTKFVHDNY VIRRTAVDSG IPLLTFNQVT KLFAEAVQKS RKVDSKSLFH YRQYSAGKAA
X

FIG. 11

CPSI N1405 SEQUENCE (SEQ ID NO:2)

MTRLTAFKV VRTLKTGFGF TNVTAHQKWK FSRPGIRLLS VKAQTAHIVL EDGTMKMGYS
FGHPSSVAGE VVFNLTGLGGY PEAITDPAYK GQILTMANPI IGNGGAPDTT ALDELGLSKY
LESNGIKVSG LLVLDYSKDY NHWLATKSLG QWLQEEKVPA IYGVDTMRMLT KIIRDKGTM
LKIEFEGQPV DFVDPNQNL IAEVSTKDVK VYKGKNPTKV VAVDCGIKNN VIRLLVKRGA
EVHLVPWNHD FTKMEYDGIL IAGGPGNPAL AEPLIQNVK ILES DRKEPL FGISTGNLIT
GLAAGAKTYK MSMANRGQNK PVLNITNKQA FITAQNHGYA LDNTLPAGWK PLFVNVDNQ
T NEGIMHESKP FFAVQFHPEV TPGPIDTEYL FDSFFSLIKK GKATTITSVL PKPALVASRV
EVSKVILILGS GGSLIGQACE FDYGGGQAVK AMKEENVKIV LMNPNIASVQ TNEVGLKQAD
TVYFLPITPQ FVTEVIAEQ PDGLILGMGG QTALNCGVEL FKRGVLEKEYK VKVLGTSVES
IMATEDRQLF SDKLNEINEK IAPSFIVESI EDALKAADTI GYPVMIRSAV ALGGGSGIC
PNRETLM DLS TKAFAMTNQI LVEKSVTGWK EIEYEVVRDA DDNCVTVCNM ENVDMGVHT
GDSVVVAPAQ TLSNAEFQML RRTSINVVRH LGIVGECNIQ FALHPTSMEY CIIENVARLS
RSSALASKAT GYPLAFIAAK IALGIPLPEI KNVVSGKTS CFEPSLDYMV TKIPRWDLR
FHGTSSRIGS SMKSVGEVMA IGRTFEESFQ KALRMCHPSI EGFTPRLP MN KEWPSNLDLR
KELSEPSSTR IYAIKAIDD NMSLDEIEKL TYIDKWFLYK MRDILNMEKT LKGLNSESMT
EETLKRAKEI GFSDKQISK LGLTEAQTRE LRLKKNHPV VKQIDTLAAE YPSVTNYLYV
TYNGQEHV DN FDDHGMMLVG CGPYHIGSSV EFDWCAVSSI RTRLQLGKKT VVNCNPETV
STDFDEC DKL YFEELSRLERI LDYHQEACG GCII SVGGQI PNNLAVPLYK NGVKIMGTSP
LQIDRAEDRS IFSAVLDELK VAQAPWKAVN TLNEALEFAK SVDYPCLLRP SYVLSGSAMN
VVFSEDEMKK FLEEATRV SQ EHPVVLTKFV EGAREVEMDA VGKDG RVISH AISEHVEDAG
VHSGDATLML PTQTISQGA I EKVQDATRKI AKAF AISGPF NVQFLVKGND VLVIECNLRA
SRSPFVSKT LGVDFIDVAT KVMIGENVDE KHLPTLDHPI IPADYVAIKA PMFSWPRLRD
ADPILRCEMA STGEVACFGE GIHTAFLKAM LSTGFKIPQK GILIGIQQS F RPRFLGVAEQ
LHNEGKFLFA TEATSDWLNA NNPANPVAV PSQEGQNPSL SSIRKLIRDG SIDLVINLPN
NNTKFVHDNY VIRRTAVDSG IPLL TNFQVT KLFAEAVQKS RKVDSKSLFH YRQYSAGKAA
X

FIG. 12

FIGURE 13

